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ABSTRACT

The Business, Education & Community On-line Network (BEACON) is designed to support development and implementation of demonstration applications operating in an asynchronous transfer mode (ATM) fiber optic network environment. Initial origination and destination sites include high schools and universities around Rock Hill (South Carolina). The entities will partner to develop and implement applications such as: distance learning classes; faculty development seminars; computer network access and interlibrary access; teleconferencing; and health, drug abuse, and community health programming. The goal of the project is to link various public and private sector entities together with a 21st century telecommunications infrastructure providing a portfolio of information services and interactive telecommunication facilities to individual citizens from all socio-economic strata, government agencies, education systems, health care systems, and businesses. The majority of this paper consists of printouts of presentation slides with graphics illustrating components of the network. (SWC)

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Rock Hill Business, Education, and Community Online Network

ED 410 917

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The BEACON network is designed to support development and implementation of demonstration applications operating in an ATM (Asynchronous Transfer Mode) fiber optic network environment. Initial origination/destination sites include Northwestern High School, Rock Hill High School, Winthrop University, and York Technical College in Rock Hill, and possibly Ft. Mill High School. These entities will partner to develop and implement applications such as:

- Distance learning classes
- Faculty development seminars
- Computer network access and interlibrary access
- Teleconferencing
- Health, drug abuse, and community health programming

Network installation and operating cost will be borne by Rock Hill Telephone Company for a period of 12 months. Site development, two-way video equipment installation and operating costs, as well as application development cost, will be borne by Rock Hill School District 3, Winthrop University, Ft. Mill High School, and York Technical College. Each of these entities will be responsible for developing and maintaining their own distance learning facilities.

Goal:

To link various public and private sector entities together with a 21st century telecommunications infrastructure providing a portfolio of information services and interactive telecommunication facilities to individual citizens from all socio-economic strata, government agencies, education systems, health care systems and businesses.

Objectives:

- Assure community-wide access and participation
- Focus on interaction between people
- Tailor applications for each user segment
- Implement in a timely manner
- Expand to connect other communities regionally and state-wide

(Editor's Note: The following pages include slides from the author's power point presentation.)

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BEACON

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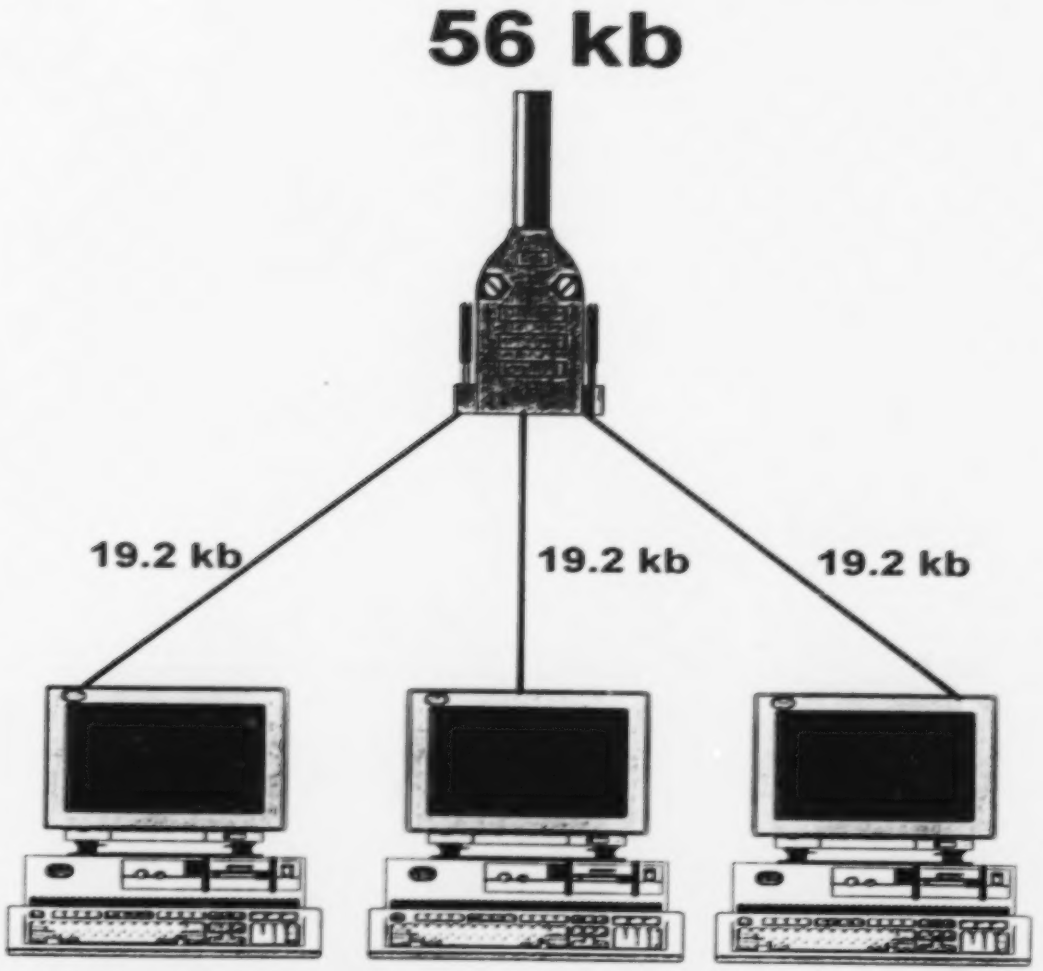

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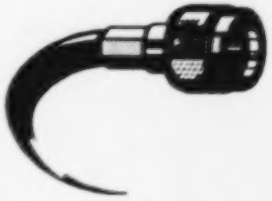
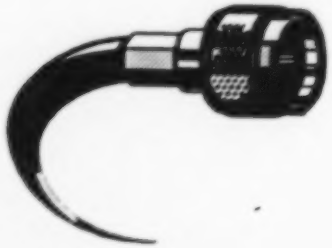
The Technical Edge

56 kb ; 3 users

Half T-1 ; 40 users



T-1 ; 80 users



10 Mb
(Ethernet)
567 users

155 Mb
(ATM)

Unlimited users

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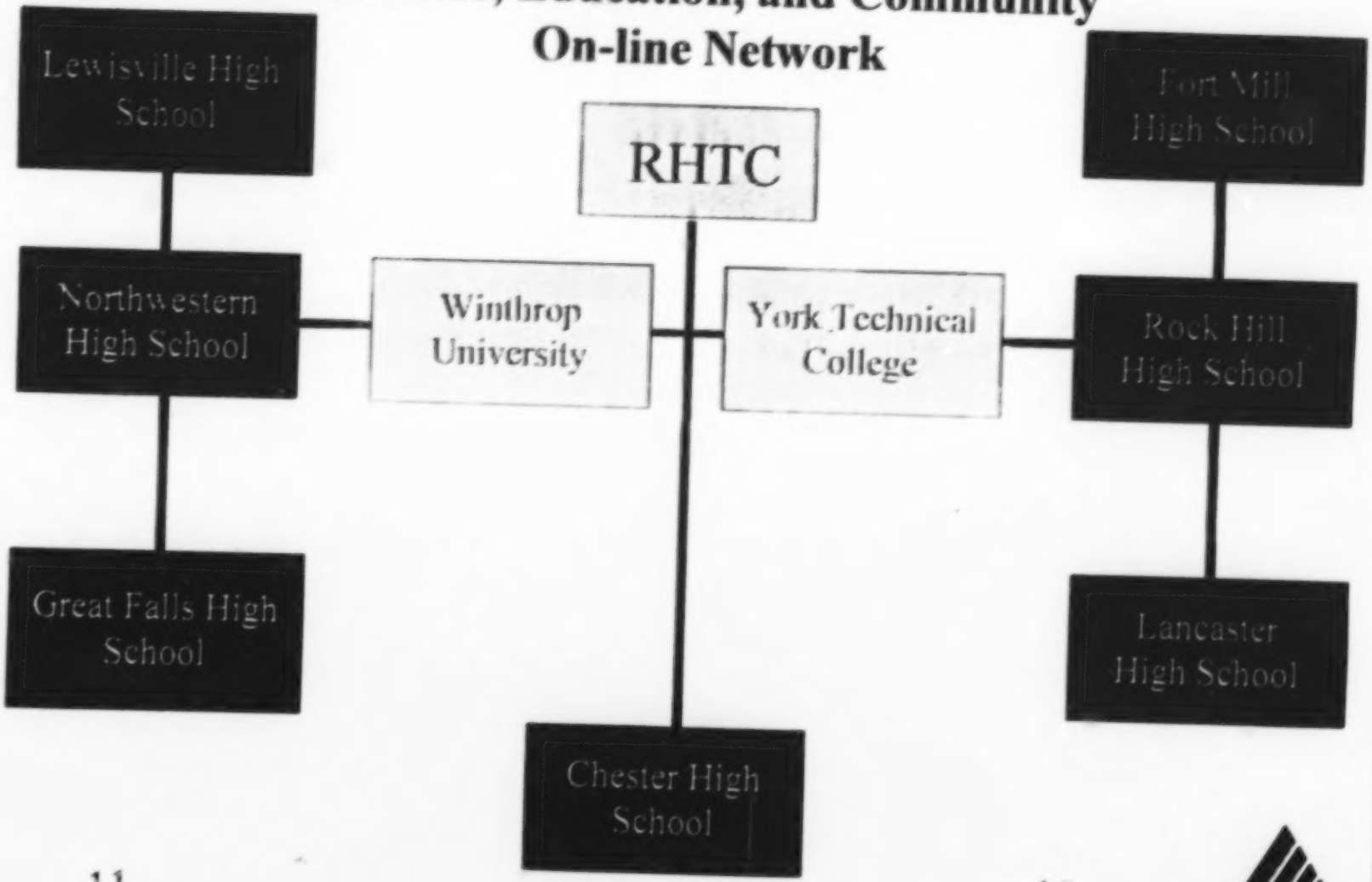
BEACON

Business, Education, and Community On-line Network



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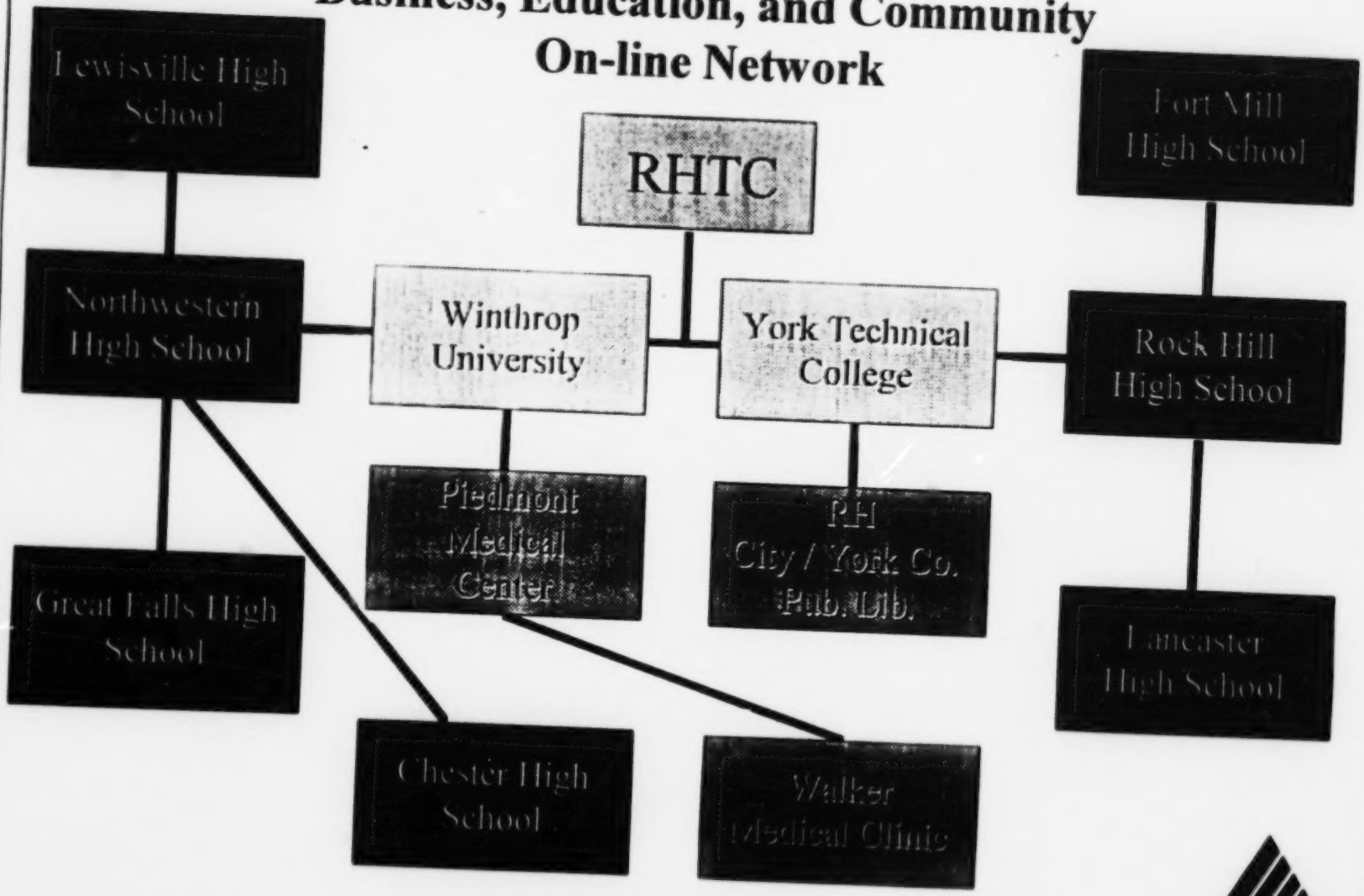
Business, Education, and Community On-line Network



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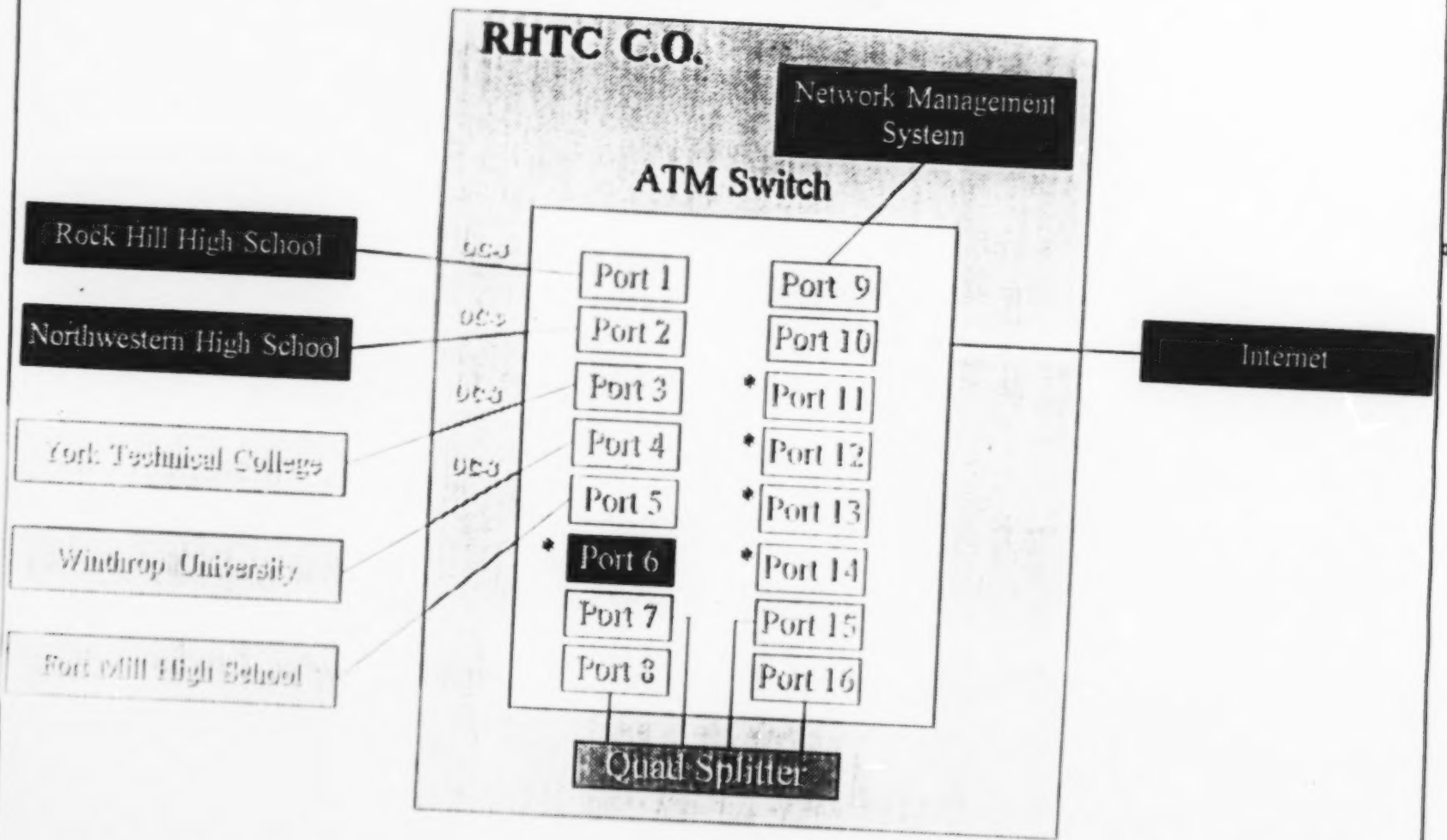
BEACON



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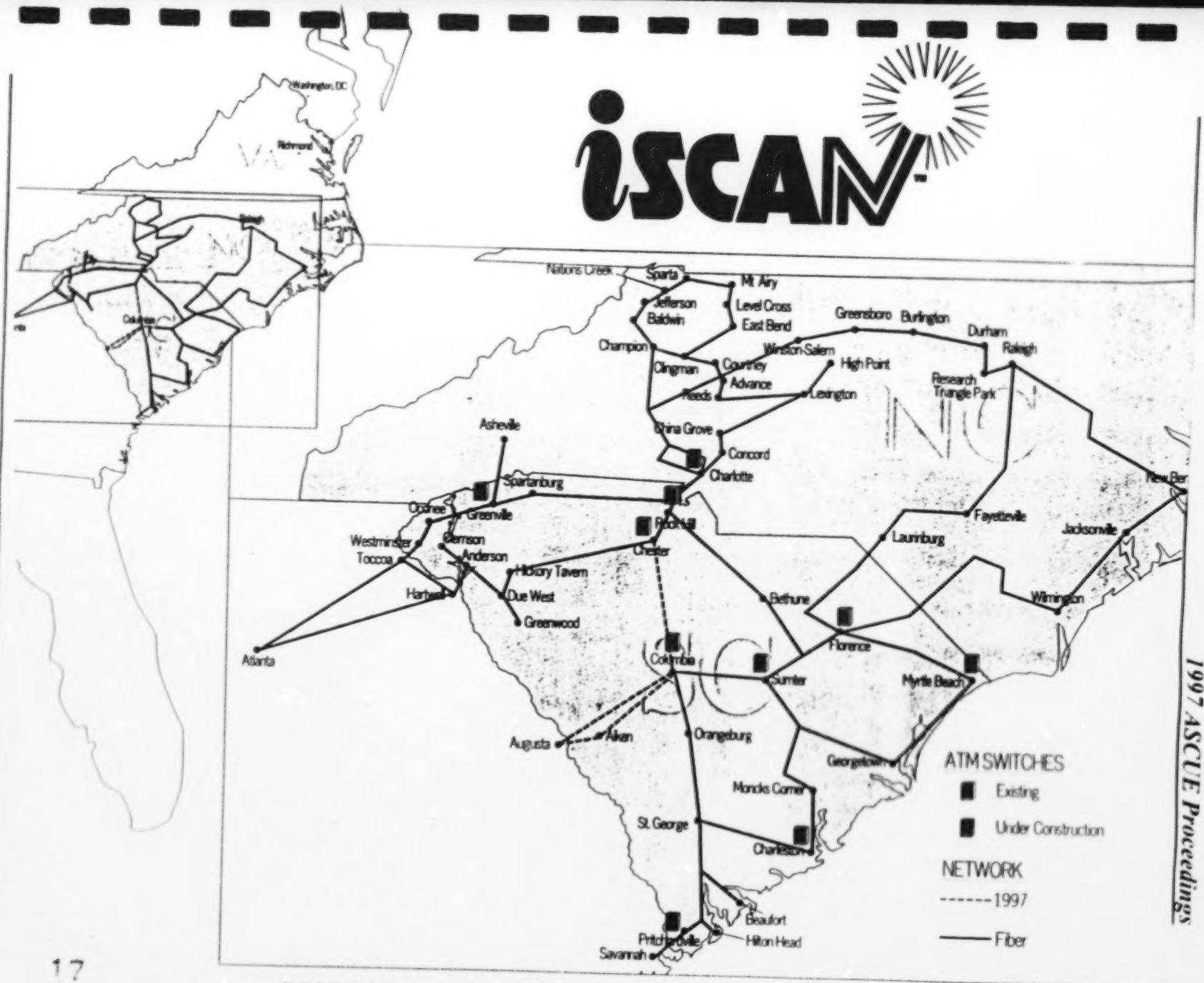

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